

Tennessee Pollution Prevention Partnership Success Story



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Enhanced Facility Lighting Is More Energy Efficient

The Member

Frito-Lay Fayetteville, a PepsiCo Company production facility is located in Lincoln County, Fayetteville, TN. This manufacturing facility has been in operation since 1997 producing salty snacks. The Fayetteville facility is a local employer of choice and has 500 highly trained team members who work diligently everyday to deliver quality products to our customers. Frito-Lay is committed to conducting its business operations in a manner that is consistent with concern and respect for our fragile environment. Toward this end, operational decisions reflect our strong belief in sound environmental management and conservation, as we faithfully seek to comply with all federal, state, and local environmental laws, rules, and regulations. Frito Lay is continually working on new resource conservation projects. This is done with a wide range of employee involvement in the Resource Conservation program. Regardless of the size of the projects, they are all taken seriously because small conservations add up to make a huge impact on reducing our resource usages.

The Story

Frito-Lay has a long history with its aggressive Resource Conservation Program that has generated significant reduction in energy consumption and utilities since the Fayetteville facility started operations. As emerging new technologies in lighting offered opportunities for the Fayetteville facility to reduce their energy consumption, projects were initiated to evaluate the options and select the optimum lighting for the operation. The Fayetteville facility has realized substantial financial benefits from resource conservation projects allowing it to remain competitive and profitable in a tough consumer market.

Lighting Retrofit

The Resource Conservation Team at the Fayetteville facility completed a lighting retrofit project in the processing area of the facility during 2004-2005. The area was initially serviced with 200 320-watt metal halide lights that provided "good" light but were not energy efficient. After a number of possible lighting solutions were evaluated, they opted for more efficient lighting that would additionally provide the most improved quality of light. The team chose a T-8 fixture with electronic ballast. Logic utilized by the team in their choice of the T-8 over the T-5 light included standardization to match existing bulbs in the packaging and office areas. Immediately, the facility began realizing energy savings from these lights as well as an improved quality of light providing the associates a safer and more user-friendly workplace. In 2007 the facility assessed additional lighting in the facility and decided to replace 291 320-watt metal halide lights located in the warehouse with the energy efficient T-8 lights.

The Success

The lighting in the production area improved from 18-foot candles to 35-foot candles. The lighting also improved in the warehouse. This achievement in the production and warehouse area further translates to a \$33,118 annual savings for the facility.

The Pollution Prevented

The Fayetteville facility achieved a total reduction of 473,127 KWH annually from this project. By reducing the energy requirements with these lighting retrofits, the Fayetteville facility positively impacted the environment by preventing 368 metric tons of Carbon Dioxide from being produced annually.

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